PRELIMINARY SITE ASSESSMENT
TASK 1: DATA RECORDS SEARCH AND ASSESSMENT

R. SCHLEIDER C&D SITE

SITE NO. 152089

KINGS PARK (T)/SUFFOLK (C)

APRIL 1991

Performed Under

NYSDEC CONTRACT NO. D002340

NYSDEC WORK ASSIGNMENT NO. D002340-3

By

URS CONSULTANTS, INC.

For

DIVISION OF HAZARDOUS WASTE REMEDIATION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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1. EXECUTIVE SUMMARY

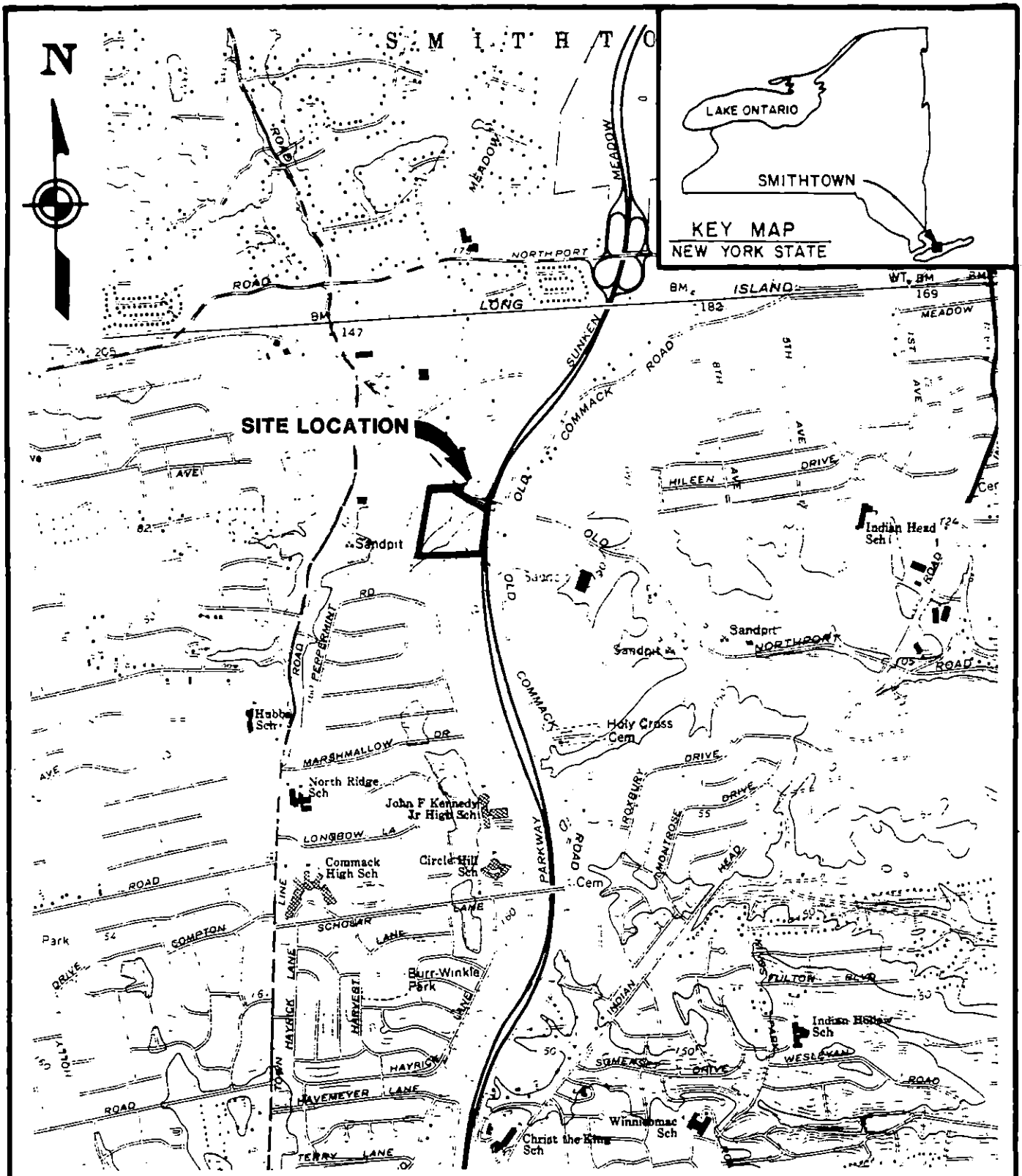
The R. Schleider C&D site (NYSDEC #152089) is located along Northport Road near the Sunken Meadow Pathway in the Town of Kings Park, Suffolk County, New York (Figure 1).

The site consists of a sand and gravel pit with areas which were used to dispose of C&D debris. File information indicates that the site also accepted mass burn incinerator ash which was reportedly high in metals concentrations (Ref. 1). In addition, the site reportedly accepted industrial wastes of unconfirmed composition (Ref. 2). Currently the site is being used to recycle C&D materials. The various components of the C&D materials are separated out and sold for scrap or processed into usable material (Ref. 3). The major operation currently used at the facility is the crushing of concrete and the recovery of the metal present.

The site is located adjacent to the Huntington Landfill (NYSDEC #152040), as well as the Amfar Asphalt Corp. (NYSDEC #152128), A&G Materials (NYSDEC #152091), S&P Materials (NYSDEC #152093) which are all Class 2a sites (Figure 2).

Elevated metals concentrations have been detected in two monitoring wells which were installed at the site as a part of a NYSDEC Phase II investigation of the adjacent Amfar site (Ref. 4). State groundwater guidance and standards were exceeded for beryllium, cadmium, iron, lead, and sodium.

Although documentation of deposition of hazardous waste does not exist for the site, current file and analytical information indicate the site may pose a significant threat to groundwater in the area. Based on existing information URS Consultants recommends the installation of five groundwater monitoring wells and sampling of groundwater, surface water and sediment.



SOURCE

GREENLAWN, N.Y., QUADRANGLE (1979)
NORTHPORT, N.Y., QUADRANGLE (1979)
(USGS 7.5 MINUTE SERIES)

SCALE 0 1000 2000 FT.

URS CONSULTANTS, INC.	R. SCHLEIDER C & D SITE SITE LOCATION MAP	FIGURE 1

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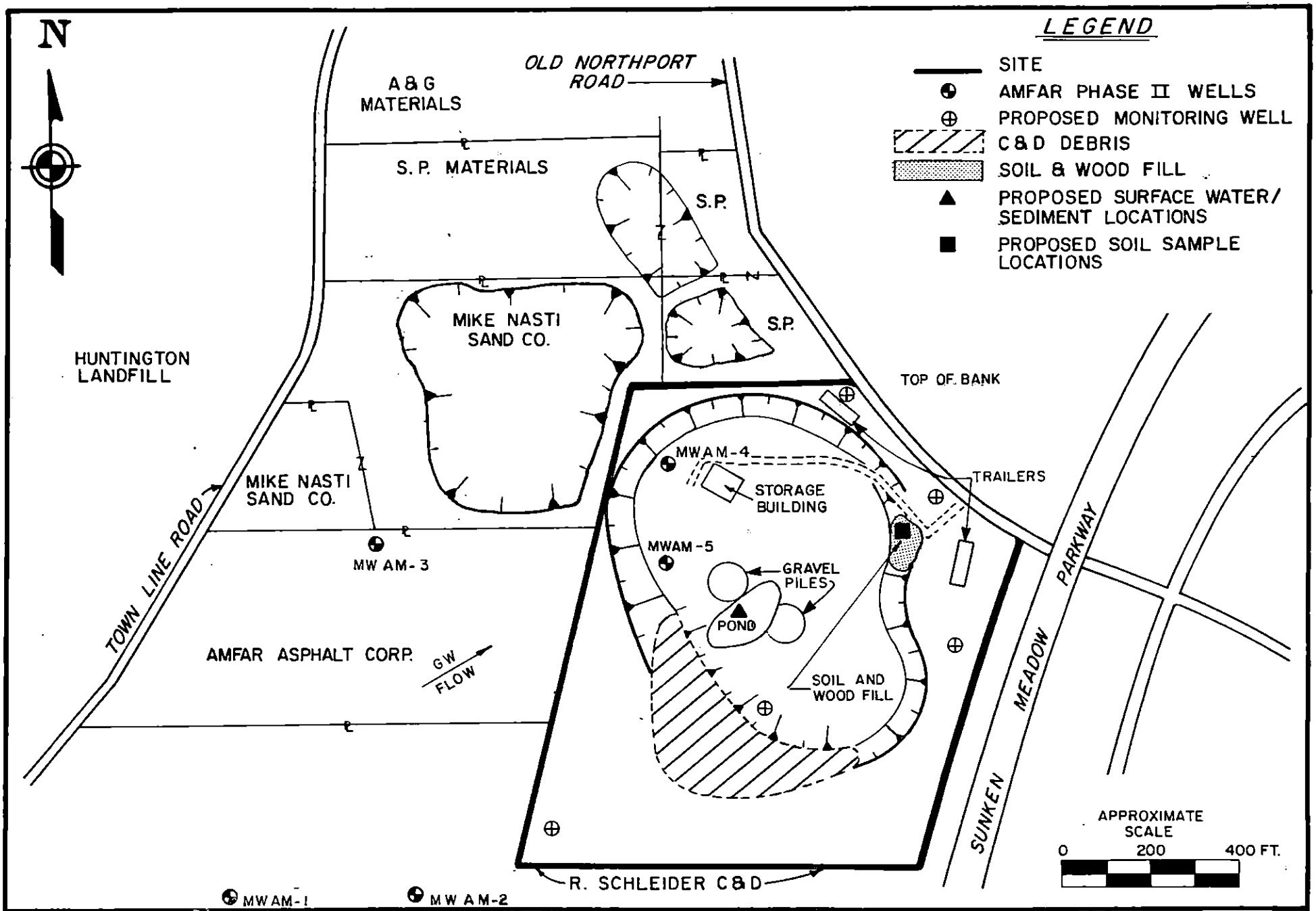

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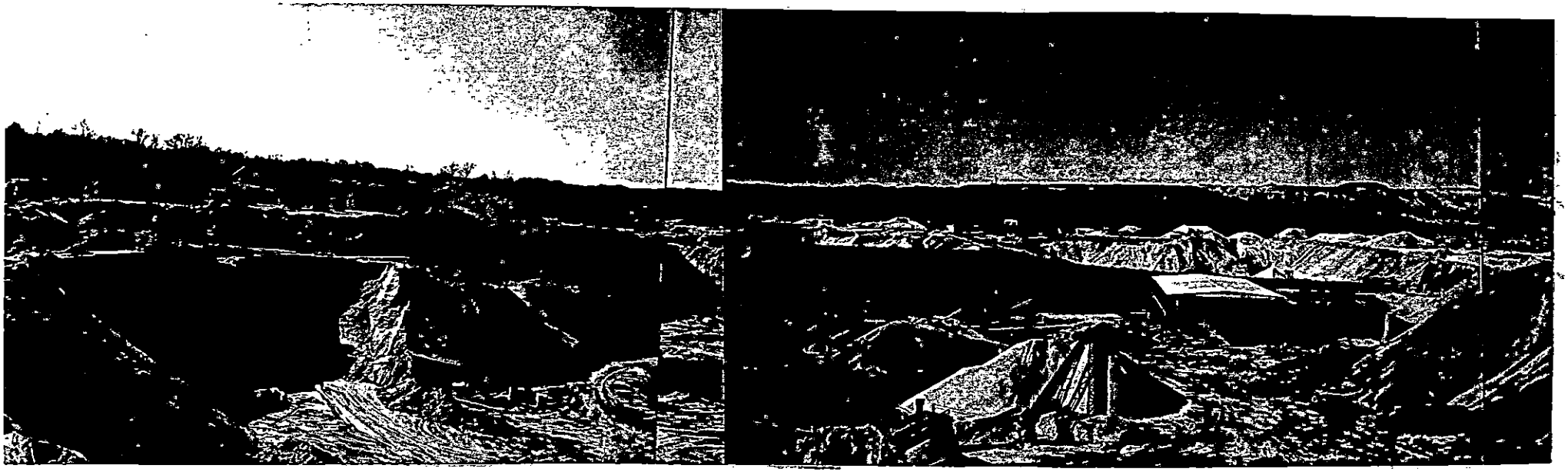
R. SCHLEIDER C & D SITE
SITE SKETCH

FIGURE 2



Looking north at the excavated portion of the site from the southeastern border of the property

FIGURE 3-SITE PHOTOGRAPHS
R. SCHLEIDER C&D SITE

47-15-23 (11/90)—9d

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION

Original—BHSC
Copy—REGION
Copy—DEE
Copy—DOH
Copy—PREPARER

ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

1. SITE NAME	2. SITE NO.	3. TOWN	4. COUNTY
R Schleider C&D Site	152089	Kings Park	Suffolk

5. REGION: 1

6. CLASSIFICATION: Current 2a / Proposed ____

7. ACTIVITY: ☐ Add ☐ Reclassify ☐ Delist ☐ Modify ____

8a. DESCRIBE LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location).

The site is located along Old Northport Road near the Sunken Meadow Expressway in Kings Park, Suffolk County, New York.

b. Quadrangle Northport c. Site Latitude 40°52'30" Longitude 73°16'57" d. Tax Map Number 023

9a BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations)

The site consists of a sand and gravel pit with areas that were used to dispose of C&D debris. Currently the site is used to recycle C&D materials and is still active as a sand and gravel operation. Two trailers and a storage building are present onsite.

b. Area 23.3 acres c. EPA ID Number ____ d. PA/SI ☐ Yes ☒ No

e. Completed: ☐ Phase I ☐ Phase II ☒ PSA ☐ Sampling

10. BRIEFLY LIST THE TYPE AND QUANTITY OF THE HAZARDOUS WASTE AND THE DATES THAT IT WAS DISPOSED OF AT THIS SITE

The site was used to process incinerator ash which reportedly contained elevated metals concentrations. The facility also was reported to have accepted industrial waste.

11a. SUMMARIZED SAMPLING DATA ATTACHED

☐ Air ☒ Groundwater ☐ Surface Water ☐ Soil ☒ Waste ☒ EP Tox ☐ TCLP.

b. List contravened parameters and values Groundwater: Manganese 8,890 ug/l, Beryllium 7.7ug/l Groundwater: Cadmium 23.7 ug/l, Cobalt 69.2 ug/l, Fe 146,000ug/l, Lead 54.3ug/l Groundwater sampled from wells which were installed onsite as part of a Phase II investigation on an adjacent site revealed elevated metals concentrations.

12. SITE IMPACT DATA

a. Nearest surface water: Distance onsite ft. Direction center of site Classification none

b. Nearest groundwater: Depth 65 ft. Flow Direction north-northeast ☒ Sole Source ☐ Primary ☐ Principal

c. Nearest water supply: Distance 500 ft. Direction north-northeast Active ☐ Yes ☐ No

d. Nearest building: Distance onsite ft. Direction ____ Use office

e. Crops or livestock on site? ☐ Yes ☒ No

f. Exposed hazardous waste? ☐ Yes ☒ No

g. Controlled site access? ☐ Yes ☒ No

h. Documented fish or wildlife mortality? ☐ Yes ☒ No

i. Impact on special status fish or wildlife resource? ☐ Yes ☒ No

j. Within a State Economic Development Zone? ☐ Yes ☐ No

k. For Class 2a: Code ____ Health Model Score ____

l. For Class 2: Priority Category ____

m. HRS Score Sm=42.25, Sfe=0.00, Sdc=50.00

n. Significant Threat ☒ Yes ____ ☐ No ☐ Unknown

13. SITE OWNER'S NAME	14. ADDRESS	15. TELEPHONE NUMBER
Raymond Schleider	Town Line Rd. Kings Park, NY	(516) 269-4219

16. PREPARER

Robert Kreuzer /Geologist/ URS Consultants, Inc.
Name, Title and Organization

4/18/91
Date

R. F. Kr
Signature

17. APPROVED

Name, Title and Organization

Date

Signature

This additional information would allow for a more thorough assessment of the site. Following the additional work, adequate information should be available in order to reclassify the site.

Based on the information gathered for this investigation the following Hazard Ranking System Scores were calculated.

S_M = 42.25 (S_{GW} = 73.08, S_{SW} = 1.06, S_A = 0.00)
S_{FE} = 0.00
S_{DC} = 50.00

2. PURPOSE

Task 1, Data Records Search and Assessment, of the Preliminary Site Assessment (PSA) was conducted at the R. Schleider C&D site, Site No. 152089, in the Kings Park, Suffolk County, New York by URS Consultants under contract to the New York State Department of Environmental Conservation (NYSDEC) Superfund Standby Contract (Contract No. D002340, Work Assignment No. D002340-3).

The R. Schleider site (Figure 1) is a suspected inactive hazardous waste site recognized by NYSDEC. This site is currently classified as Class 2a because there is insufficient information to document hazardous waste disposal and/or assess the significance of potential risks to public health or the environment. The purpose of a PSA is to provide the information for NYSDEC to reclassify the site according to the following classifications:

- Class 2- Hazardous waste sites presenting a significant threat to public health or the environment.
- Class 3- Hazardous waste sites not presenting a significant threat to public health or the environment
- Delist-Sites where hazardous waste disposal can not be documented.

3. SCOPE OF WORK

The Preliminary Site Assessment, Task I, investigation at R. Schleider site comprised several interrelated tasks as follows:

File Reviews

An extensive data search was conducted, utilizing both site-specific and regional sources. This information was compiled from existing data as well as new sources. These include:

- o Visit to the NYSDEC Central office in Albany to conduct a file search June 14, 1990, (518) 457-9538.
  - General file information
- o Visit to the NYSDEC Region I office February 12, 1991.
  - General files, (516) 751-4078
  - Tax maps
  - Aerial photographs
  - Reports from DEC investigations of properties in the vicinity of the site.
- o Suffolk County Health Department February 13, 1991, (518) 451-4647.
  - General files
- o Aerographics Corporation, P.O. Box 248 Bohemia, N.Y., (516) 589-6045.
  - Aerial photographs of site 1980, 1990.

Site Inspection

A site inspection was conducted on February 12, 1991 in order to assess the surface characteristics of the site and vicinity, observe evidence, if any, of hazardous substances present, photograph the site, conduct air monitoring using a PID (HNu) and a radiation meter, and confirm information obtained from the data search.

The site inspection was conducted by the following personnel:

NAME	TITLE	AFFILIATION
Robert F. Kreuzer	Geologist	URS Consultants, Inc.
Jamie Ascher	Geologist	NYSDEC Region I

During the one hour site inspection, no readings above background levels were recorded on either instrument. The facility consists of a sand mining operation with some C&D material present (Figure 2). During the visit, two fill areas were observed. An embankment of the sand pit along the southwestern side of the site had C&D fill placed along it. Additional fill, consisting of chipped wood and soil, was located in the northeastern portion of the site. No signs of leachate seeps were observed in the vicinity of either of these fill areas.

Three buildings are located onsite including two trailers located in the northeastern corner of the site, and a large storage building located within the pit. The trailers serve as offices while the building is used to store road salt and equipment. Numerous piles of concrete, sand and gravel were located across the site. A small pond was present in the central portion of the sand pit, and two monitoring wells were observed in the northwest corner of the site. These wells, installed during the Amfar phase II investigation in 1990, were locked and appeared to be in good condition. The wells were encircled in 4.0 feet diameter concrete pipes to protect them from soil filling operations which had taken place along

the embankment. The wells were several feet below grade within the protective pipes. Surface features, areas of fill, monitoring well locations, and building locations are shown in figure 2. A USEPA Site Inspection Report (EPA Form 2070-13) and the NYSDEC " Additions/Changes to the Registry of Inactive Hazardous Waste Disposal Sites" were completed following the site inspection.

4. SITE ASSESSMENT

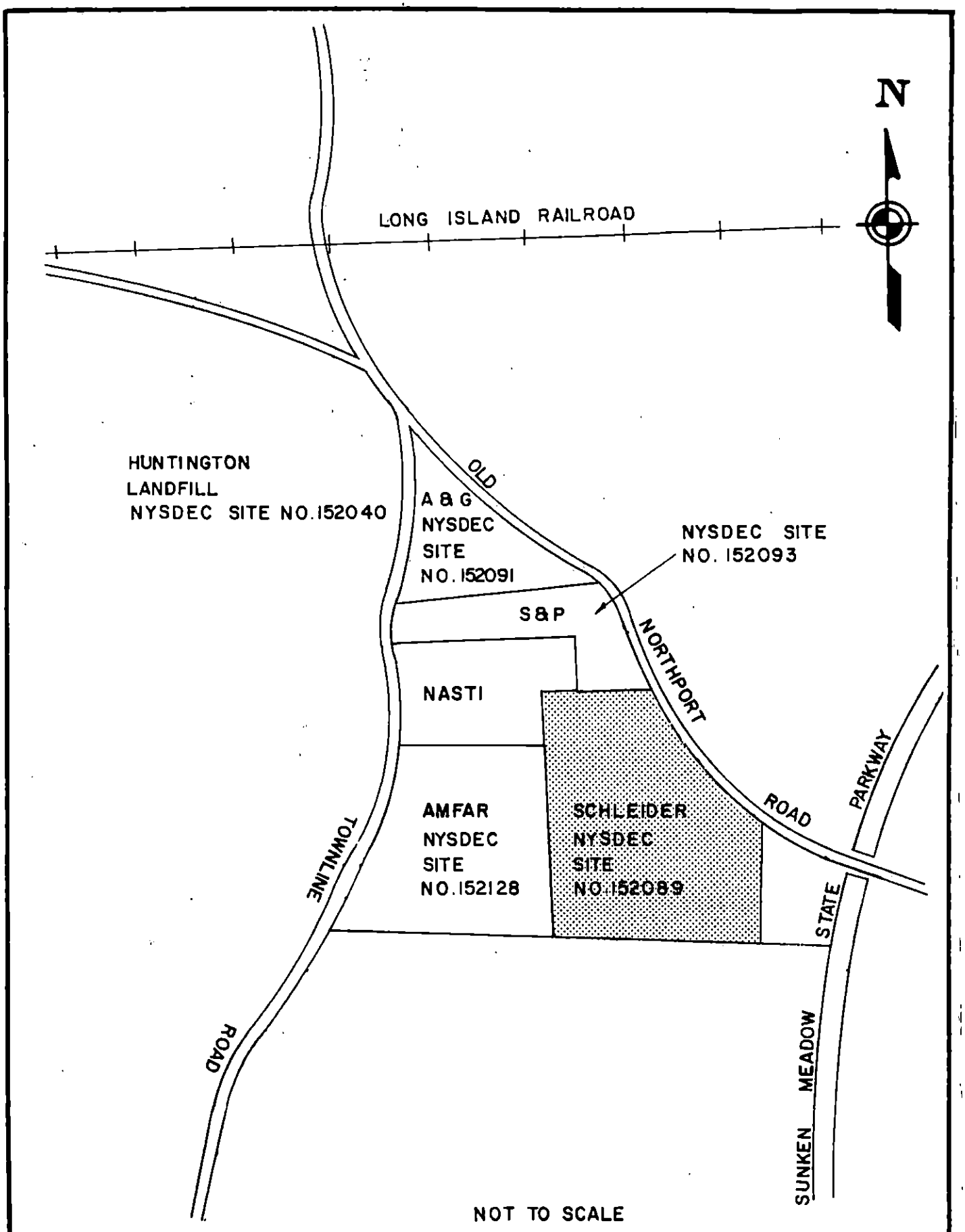
4.1 Site History

The Schleider C&D site is located along Northport Road near the Sunken Meadow Parkway in Kings Park, Suffolk County New York. The site is located in the vicinity of the Amfar C&D site (NYSDEC #152128, Class 2a), A&G Materials (NYSDEC #152091, Class 2a) S&P Materials (NYSDEC #152093, Class 2a) and Huntington Landfill (NYSDEC #152040, Class 2) (Figure 4).

The site has been owned and operated by Raymond Schleider, of the Schleider Contracting Corporation, since approximately 1970 (Ref. 3). The original operation at the site consisted of the extraction of surficial sand and gravel deposits. Later subsurface sand and gravel mining operations produced the existing pit (Figure 2). The sand and gravel operation was conducted under the regulations of a permit issued by the NYSDEC (Permit #102837) (Ref. 5). Based on aerial photos from 1970, 1980 and 1990, it appears that the majority of the subsurface mining activities at the site took place during the 1980's.

File information indicates that the site was used in the late 1970's for the disposal of C&D debris. As a result of public complaints, the NYSDEC notified Raymond Schleider in February 1979 that a permit was required in order to operate a C&D disposal facility (Ref. 6). Following notification, Mr. Schleider submitted an "Application for Use of a Construction and Demolition Disposal Site" in February of 1979 (Ref. 7). File information does not indicate whether a permit was ever issued. Allegations made in 1979 suggests the site accepted drummed waste (Ref. 8). In addition, the NYSDEC noted in 1980 that what appeared to be industrial waste was observed during a site visit.

The site was also used to process ash from the Glen Cove Mass Burn incinerator. The ash which reportedly contained elevated metals



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GENERAL LOCATION OF VARIOUS SITES IN THE VICINITY

FIGURE 4

concentrations was mixed with sand, gravel and cement to form concrete. This process reportedly was used to stabilize the ash, and was conducted under the supervision of the NYSDEC (Ref. 3). According to Mr. Schleider this operation ceased in 1988 following notification by the NYSDEC that this process was no longer legal. Sampling of the ash was conducted by the Suffolk County Health Department in August of 1988 and was analyzed for total metal, dioxin, and EP-toxicity. The results of this testing are reported in Section 4.4 of this report.

According to Mr. Schleider the C&D material which was accepted at the site is currently being recycled and sold as construction material or scrap. A major portion of the material being processed consists of concrete. The concrete is processed through a crusher and any metal present is separated out. The metal is sold as a scrap and the crushed concrete is sold as a construction material.

Currently, the site is used as a staging area for processed and unprocessed materials. The C&D materials processed include wood, concrete and metal. The sand and gravel operation is presently active.

4.2 Site Topography

The R. Schleider C&D site is located on an outwash plain south of the Harbor Hill Moraine in Suffolk County, N.Y. During the final advance of the Wisconsin glaciation, the Harbor Hill Moraine was formed along what is now the north shore of Long Island. The area between the Harbor Hill Moraine and the Lake Ronkonkoma Moraine is covered with outwash deposits. These deposits have been mined frequently on Long Island for sand and gravel (Ref. 4, 9, 10).

4.3 Surface Water Hydrology

Due to the high permeability of the sand and gravel, there are very few perennial streams on Long Island (Ref. 4). In the vicinity of the site, there are no perennial streams. The nearest stream is Sunken Meadow Creek, over 1.5 miles north of the site (Ref. 11). A small pond is located in the center of the gravel pit. Based on groundwater data from the Amfar Phase II investigation, it appears that the water level in the pond represents the water table elevation of the area.

Groundwater Hydrology

The R. Schleider C&D site is located in an outwash plain south of the Harbor Hill Moraine. The Pleistocene Upper Glacial Aquifer, as it is known, is approximately 200 - 300 feet thick in the vicinity of the site. Below the Upper Glacial Aquifer is found the Magothy Aquifer, an unconsolidated fine to medium sand unit which was deposited during the Upper Cretaceous period. The Upper Glacial and Magothy Aquifers supply most of the public and private water in Suffolk County (Ref. 12). The upper portion of the Magothy Formation contains fine grained sand and some clay. As a result, the Upper Magothy is believed to be a hydraulic boundary between the Upper Glacial Aquifer and the rest of Magothy (Ref. 9). Beneath the Magothy are found the Raritan Clay and the Lloyd Aquifer (Figure 5). Beneath the unconsolidated Pleistocene and Cretaceous deposits is found, at a depth of approximately 1,100 feet in the vicinity of the site, Pre-Cambrian Metamorphic rocks of the Manhattan Group.

All of Long Island utilizes groundwater for potable water. Before 1960, almost all public supply wells on Long Island were screened in the Upper Glacial Aquifer. After 1973, 63% of the public supply wells on Long Island were screened in the Magothy Aquifer (Ref. 9).

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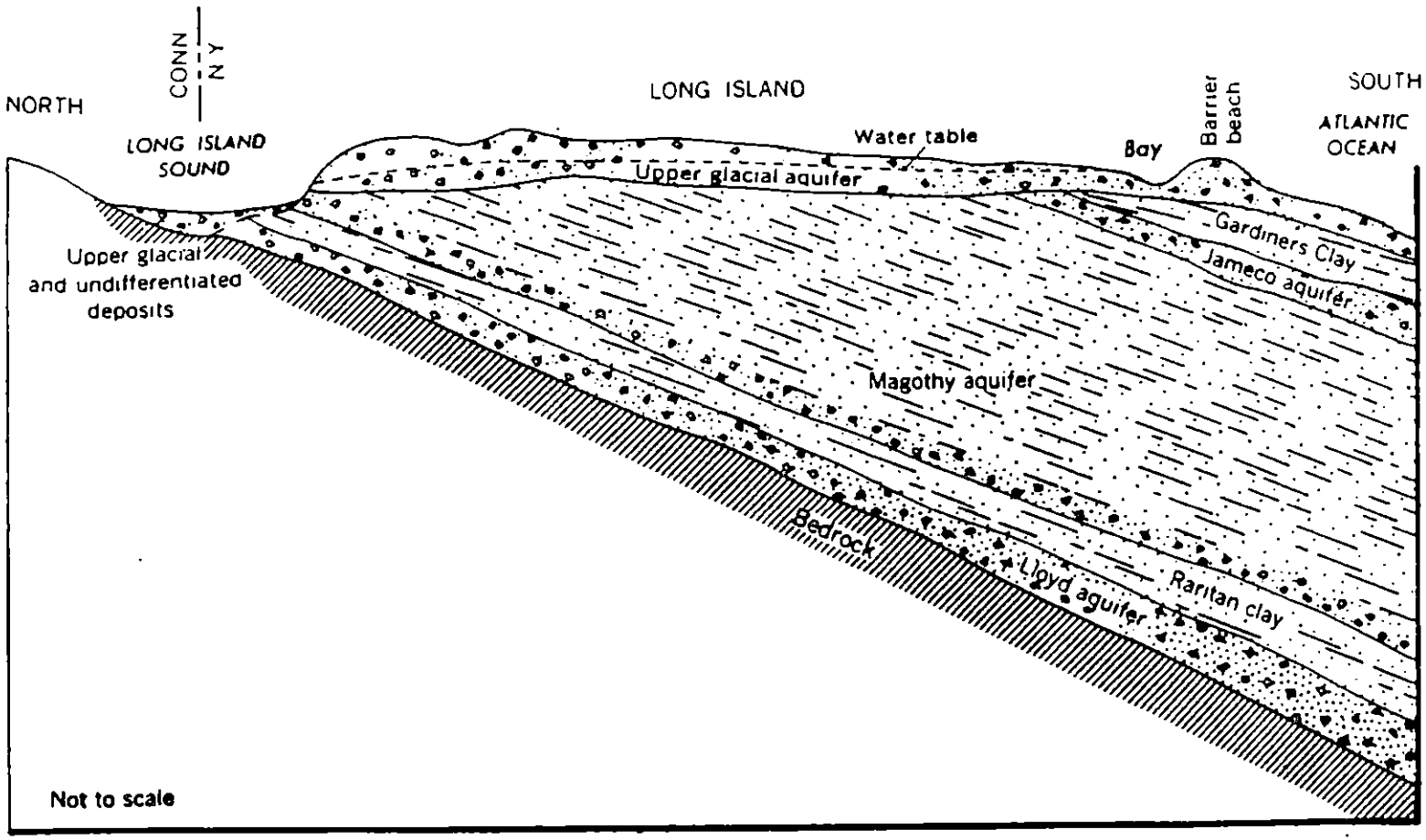

LEGEND

- CLAY
- SAND
- GRAVEL
- SANDY CLAY, CLAYEY SAND AND SILT
- CONSOLIDATED ROCK

SOURCE:
USGS PROFESSIONAL PAPER 627-F

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GENERALIZED CROSS SECTION SHOWING THE 4 PRINCIPAL LONG ISLAND AQUIFERS

FIGURE 5

The Long Island Aquifer System has been determined by the USEPA, to be the sole source Aquifer for Long Island (Ref. 13) pursuant to the Safe Drinking Water Act (42 USC 300h-3[e]), .

Two monitoring wells, installed as part of a Phase II investigation of the adjacent Amfar C&D site, are located in the northwest corner of the site. In addition, three wells are located on the Amfar property to the west (Figure 2). The wells range in depth from approximately 15 feet below the ground surface within the pit (MWAM-4) to 75 feet (MWAM-2) for wells outside of the pit (Figure 2) (Ref. 14). Groundwater elevations were found to range from approximately 93 feet at well MWAM-1 to 90.5 at MWAM-4, representing a northeast direction of flow.

The outwash deposits encountered were described as a well-mixed assemblage of tan to light yellow sand and gravel. The texture and size distribution of the deposits were described as follows: a medium sand with some to little fine to coarse gravel; some fine sand; and little coarse sand. Occasionally, a well sorted fine sand was observed (Ref. 4). The deposits are highly permeable with estimated hydraulic conductivities ranging from 46.9 ft/day (1.66×10^{-2} cm/sec) to 1,100 ft/day (3.88×10^{-1} cm/sec) (Ref. 4).

4.4 Contamination Assessment

Elevated metals concentrations have been detected in monitoring wells installed at the site as part of the Amfar Phase II investigation. The elevated metals detected included: beryllium, cadmium, chromium, iron, lead and sodium. No organic compounds were detected in either of the onsite wells.

Filtered and unfiltered monitoring well samples were submitted for metals analysis. The unfiltered sample from well MWAM-4 exceeded state guidance or standards values for beryllium, iron, lead and sodium. The

unfiltered sample from well MWAM-5 exceeded state guidance or standard values for beryllium, cadmium, chromium, iron, lead and sodium. The results of the unfiltered metals analysis from the AMFAR Phase II investigation are presented in Table 1.

The filtered sample results for wells MWAM-4 and MWAM-5 revealed that iron and sodium exceeded the state standards of 300 and 20,000 ug/l respectively. Both iron and sodium appear to be elevated in wells MWAM-4 and MWAM-5 when compared to the upgradient well MWAM-1. The possible source of the sodium and iron is the C&D debris and road salt which is present on site. In addition, lead appears to be elevated in filtered sample MWAM-4, and cadmium appears elevated in filtered sample MWAM-5. The results of the filtered analysis are presented in Table 2.

Although the unfiltered samples were reportedly turbid (greater than 100 NTU), the results of the filtered and unfiltered analysis shows a general increase in metals concentrations in the downgradient wells.

In 1988, samples of ash which were present at the site were collected by the Suffolk County Health Department. The ash was thought to be from the Glen Cove Mass Burn Incinerator, and was reportedly stored in a pile (approximately 20 feet in diameter by 20 feet high) located along the southern border of the site (Ref. 1). File information indicates that in 1986 the ash was not stored on an impervious pad (asphalt) and was not covered (Ref. 24). Additional ash samples were collected from piles at the Glen Cove incinerator in order to make comparisons. The samples were submitted for dioxin, EP-Toxicity and metals analysis.

The results for the dioxin analysis were not located in either the SCDH or NYSDEC files. The EP-Toxicity results revealed that the leachable metals for the samples collected at the Schleider site were below established levels. Total metals analysis of the ash revealed the presence of copper, chromium, lead, cadmium and silver. Similar metals

TABLE 1

SUMMARY OF INORGANIC ANALYSIS OF UNFILTERED GROUNDWATER

AMFAR ASPHALT CORPORATION SITE

PARAMETER	ARAR[1] Class GA	MWAM-1	MWAM-2	MWAM-3	MWAM-4	MWAM-5
ALUMINUM		4,800	42,600	945	21,500	61,700
ANTIMONY	3 G	U	U	U	U	U
ARSENIC	25	5.1 BN	10.5 N	U	9.6 BN	17.6 SN
BARIUM	1,000	U	305	U	226	375
BERYLLIUM	3 G	U	6.7	U	5.0	7.7
CADMIUM	10	6.3	25.6	U	7.3	23.7
CALCIUM		16,600	12,300	8,220	32,600	81,900
CHROMIUM		U	60.0	U	25.2	84.8
COBALT	50	U	105	U	U	69.2
COPPER	200	U	112	U	57.9	110
IRON	300*	17,300	116,000	2,440	56,500	146,000
LEAD	25	11.2 SN	44.7 SN	4.2 B	50.2 SN	54.3 SN
MAGNESIUM	35,000 G	U	14,500	U	11,000	29,300
MANGANESE	300*	621	7,190	378	3,470	8,990
MERCURY	2	0.21	0.64 ND	U	NU	U
NICKEL		U	99.1	U	U	63.1
POTASSIUM		U	7,800	U	5,310	15,300
SELENIUM	10	U	U	U	U	U
SILVER	50	U	U	U	U	U
SODIUM	20,000	U	5,330	U	40,200	55,900
THALLIUM	4 G	U	U	U	U	U
VANADIUM		U	123	U	56.9	164
ZINC	300	41.8	233	26.4	134	224
CYANIDE	100	U	U	U	U	U

All results in µg/l

[1] NYS T.O.G.S., 9/90.

U – Analyzed for but not detected

N – Spiked recovery was not within control limits

B – Concentration is less than the contract required detection limit but greater than the instrument detection limit.

S – Reported value was determined by the Method of Standard Additions (MSA).

D – Duplicate analysis not within control limits.

G – Guidance value.

* – Standard for total iron and manganese is 500ppb.

TABLE 2

SUMMARY OF INORGANIC ANALYSIS OF FILTERED GROUNDWATER

AMFAR ASPHALT CORPORATION SITE

PARAMETER	ARAR[1] Class GA	MWAM-1F	MWAM-2F	MWAM-3F	MWAM-4F	MWAM-5F
ALUMINUM		U	1,090	278	5,100	1,730
ANTIMONY	3 G	U	U	U	U	U
ARSENIC	25	U	U	U	U	U
BARIUM	1,000	U	U	U	U	U
BERYLLIUM	3 G	U	U	U	U	U
CADMIUM	10	U	U	U	U	5.7
CALCIUM		15,200	8,650	5,940	29,500	77,700
CHROMIUM		U	U	U	U	U
COBALT	50	U	U	U	U	U
COPPER	200	U	U	U	U	U
IRON	300*	162	2,690	369	11,900	3,790
LEAD	25	U	U	U	18.1 N	3.9 BN
MAGNESIUM	35,000 G	U	U	U	7,810	14,800
MANGANESE	300*	37.8	334	276	1,210	4,640
MERCURY	2	U	0.46 ND	U	0.21 ND	U
NICKEL		U	U	U	U	U
POTASSIUM		U	U	U	U	6,730
SELENIUM	10	U	U	U	U	U
SILVER	50	U	U	U	U	U
SODIUM	20,000	U	4150 B	U	41,600	54,200
THALLIUM	4 G	U	U	U	U	U
VANADIUM		U	U	U	U	U
ZINC	300	U	26.9	25.3	77.5	27.7
CYANIDE	100	NR	NR	NR	NR	NR

All results in µg/l

[1] NYS T.O.G.S., 9/90.

U – Analyzed for but not detected

N – Spiked recovery was not within control limits

B – Concentration is less than the contract required detection limit but greater than the instrument detection limit.

S – Reported value was determined by the Method of Standard Additions (MSA).

D – Duplicate analysis not within control limits.

G – Guidance value.

* – Standard for total iron and manganese is 500ppb.

were detected in the samples collected at the Glen Cove incinerator. The results of the ash sample analysis are presented in Table 3.

Groundwater contamination is of major concern at the site since groundwater is the primary source of potable water for the area. Present analytical data indicates that elevated metals concentrations are present in the groundwater at the site. The source of these metals may be attributable to the materials present at the site (i.e., C&D debris, incinerator ash, and road salt).

TABLE 3
WASTE PILE SAMPLING – R. SCHLEIDER C&D SITE
SUFFOLK COUNTY HEALTH SERVICES LABORATORY

SAMPLE ID	BOTTOM OF BLACK ASH PILE	BLENDING PILE	TOP OF ASH PILE SOLID SAMPLE	SW END OF SALT/SAND PILE	GLEN COVE INCINERATOR	GLEN COVE INCINERATOR
PARARMETER						
COPPER	390	64	650	<2	250	<2
IRON	ND	ND	ND	ND	ND	ND
CHROMIUM(total)	45	48	52	24	57	56
NICKEL	10	<10	<10	<10	<10	<10
ZINC	ND	ND	ND	ND	ND	ND
LEAD	ND	ND	1,300	<20	3,500	800
CADMIUM	22	<2	15	<2	31	22
SILVER	9	<2	4	<2	13	10
CHROMIUM(+6)	ND	ND	ND	ND	ND	ND
EPTOX-CHROMIUM	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5ppm
EPTOX-LEAD	<5 ppm	<5 ppm	<5 ppm	<5 ppm	12 ~~<5 ppm~~	<5ppm
EPTOX-CADMIUM	<1 ppm	<1 ppm	<1 ppm	<1 ppm	<1 ppm	<1ppm
EPTOX-SILVER	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5ppm

NOTE: All units are μg/gm except where noted.

5.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

5.1 Hazardous Waste Deposition

The majority of the waste accepted at the site was C&D debris including concrete, tree stumps and road bed material. In addition to accepting C&D debris, file information indicates that the site also accepted industrial waste, and incinerator ash (Ref. 12). The file information was unclear as to the composition of the industrial waste (Ref. 2). The site files also indicated that the site was allegedly used to dispose of drummed waste (Ref. 8). The areas of the site used to dispose of waste are shown on Figure 2.

Although the ash which was accepted at the site passed the EP-Toxicity criteria for leachable metals the detection of similar metals in the groundwater monitoring wells suggests that ash may have impacted the groundwater at the site. In addition, the referenced industrial waste accepted (Ref. 2) may also be impacting the groundwater at the site.

5.2 Significant Threat Determination

As groundwater is the only source of potable water for Long Island, and the Long Island Aquifers have been designated by the USEPA as sole source aquifers, threat to the quality of the groundwater on Long Island is significant (Ref. 13).

Based on the present analytical data it appears that materials present at the site may be impacting the groundwater quality of the area. In addition, the water level of the pond located in the bottom of the sand and gravel pit appears to be at the same level as the water table. This pond could present a direct pathway for surface contaminants to enter the aquifer (i.e., NaCl from the road salt located on site, and surface runoff from the C&D debris).

5.3 Recommendations

Although no documentation of hazardous waste exists for the site, current analytical and file information suggests that the site may have accepted hazardous waste. In view of this information along with the sensitive groundwater conditions present in the area, it is recommended that the NYSDEC perform the following additional work in order to more thoroughly evaluate the site.

Specific recommendations include:

- Five monitoring wells should be installed as shown in Figure 2. The wells will be used to assess the site impact on the groundwater of the area. Based on the well log information from the Amfar site, the required depth at the site is expected to be approximately 70 feet deep for wells outside the pit. The required depth for the additional well within the pit is expected to be approximately 15 to 20 feet deep.

- The wells should be sampled and analyzed for full TCL parameters.

- The Amfar wells should be sampled, in conjunction with the Schleider wells in order to differentiate the source of any contaminants detected. Prior to sampling, the Amfar wells should be redeveloped in order to collect samples with turbidity readings of less than 50 NTU.

- One surface water and sediment sample should be collected from the small pond located in the center of the pit. This sample should be analyzed for TCL parameters.

- Soil samples should be collected from the soil and wood fill area as shown in Figure 2. Soil samples should be collected from the southwest corner of the site where the ash pile was reportedly located. These samples should be submitted for full TCL and EP-Toxicity analysis.

- The final assessment of the site should also include consideration of and data from adjacent sites. These include:

Huntington Landfill - NYSDEC #152040
S&P Materials - NYSDEC #152093
Amfar Asphalt - NYSDEC #152128
A&G Materials - NYSDEC #152091

REFERENCES

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23. U.S. Department of Agriculture, Soil Conservation Service, 1975. Soil Survey of Suffolk County.

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APPENDIX A

References

199999 — ERP 9/9/88.

SUFFOLK COUNTY HEALTH SERVICES LABORATORY REF (1)

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/8

FIELD NO. 1-BR-7-7 LAB NO. IW-888031 DATE COMPLETED 8/31/88 B. Mall

NAME OR FIRM RAY SCHLEIDER CNTRS

ADDRESS OR LOCATION OLD NORTHPORT RD KINGS PARK, NY

POINT OF COLLECTION BOTTOM OF BLACK ASH PILE

REMARKS/INSTRUCTIONS

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	390. Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	—
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT	45.
	COD					X	NICKEL	<10.
	TOC		X	EP TOX		X	ZINC	—
				→ Cr	<5 ppm	X	LEAD	3200.
				Pb	<5 ppm	X	CADMIUM	22.
	NITRATE-N			Cd	<1 ppm	X	SILVER	~9.
	NITRITE			Ag	<5 ppm	X	CHROMIUM-+6	
	AMMONIA-N							
	TKN			pH (FIELD)				
				TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME		DATE	TIME
1. COLLECTED BY	D. Rogers	SCDHS	7 July 88	11:55A	TO		
2. POSSESSION BY	D. Rogers	SCDHS	7 July 88	11:55A	TO		
3. POSSESSION BY			DATE - TIME		TO	DATE - TIME	
4. RECEIVED LAB BY			DATE - TIME		TO	DATE - TIME	
5. POSSESSION BY			DATE	TIME			
6. POSSESSION BY			DATE - TIME		TO	DATE - TIME	
			DATE - TIME		TO	DATE - TIME	

ZRP 9/9/

SUFFOLK COUNTY HEALTH SERVICES LABORATORY REF (1)

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2

FIELD NO. 12-ID-7-7 LAB NO. IW-888032 DATE COMPLETED 8/31/88 b.f

NAME OR FIRM Ray Schleider Const.

ADDRESS OR LOCATION Old Northport Rd., Smithtown

POINT OF COLLECTION Blending Pile

REMARKS/INSTRUCTIONS

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	64. Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	48.
COD		EP Tox Test Result		NICKEL	<10.
TOC		CR	<5 ppm	ZINC	
		Pb	<5 ppm	LEAD	110.
		Cd	<1 ppm	CADMIUM	<2.
NITRATE-N		Ag	<5 ppm	SILVER	<2.
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		pH (FIELD)		EP Tox	
		TEMP. (FIELD)			

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	I. Dotoski	SCDHS	7/7/88	
2. POSSESSION BY			DATE - TIME TO	DATE - TIME
3. POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY			DATE	TIME
5. POSSESSION BY			DATE	TIME

FMP 9/9/88 OC

SUFFOLK COUNTY HEALTH SERVICES LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

REF (1)

18-247: 21

FIELD NO. 23-ID-7-7 LAB NO. IW-888033 DATE COMPLETED 8/31/88 B.M/ah

NAME OR FIRM Bay Schleider Const.

ADDRESS OR LOCATION Old North Port Rd, Smithtown

POINT OF COLLECTION Top of Ash Pile

REMARKS/INSTRUCTIONS Solid Sample

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	650. Mg/kg ugm
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	52.
COD		EP Tox Test	Results	NICKEL	<10.
TOC		Cr	<5 ppm	ZINC	
		Pb	<5 ppm	LEAD	1300.
		Cd	<1 ppm	CADMIUM	15.
NITRATE-N		Ag	<5 ppm	SILVER	~4.
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		pH (FIELD)		EP TOX	
		TEMP. (FIELD)			

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	E. Dotoski	SCDHS	7/7/88	11:45 AM
2. POSSESSION BY			DATE - TIME TO	DATE - TIME
3. POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY			DATE	TIME
5. POSSESSION BY			DATE - TIME TO	DATE - TIME
6. POSSESSION BY			DATE - TIME TO	DATE - TIME

ZRP 9/9/88.

SUFFOLK COUNTY HEALTH SERVICES LABORATORY REF (1)

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 218

FIELD NO. 1007-7 LAB NO. IW-9999 88034 DATE COMPLETED 8/31/88 S.M.

NAME OR FIRM Ray Schleider Contracting

ADDRESS OR LOCATION

POINT OF COLLECTION SW end of salt sand/Pile

REMARKS/INSTRUCTIONS

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	< 2. Mg/l ug/L
CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	—
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS			EP Tox	Results	X	CHROMIUM-TOT	24 ug/L
COD			CR	< 5 ppm	X	NICKEL	< 10.
TOC			Pb	< 5 ppm		ZINC	—
			Cd	< 1 ppm	X	LEAD	< 20.
			Ag	< 5 ppm	X	CADMIUM	< 2.
NITRATE-N					X	SILVER	< 2.
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)				
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION		
1. COLLECTED BY			DATE	TIME
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY			DATE	TIME
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

FRC 9/9/88 Q

SUFFOLK COUNTY HEALTH SERVICES LABORATORY REF (1)

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 21

FIELD NO. 3-ID-77 LAB NO. IW-888035 DATE COMPLETED 8/31/88 G.H.

NAME OR FIRM Glen Cove Incinerator

ADDRESS OR LOCATION

POINT OF COLLECTION

REMARKS/INSTRUCTIONS

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	250. Mg/l mg/m
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	—
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS		EP Tox Test Results		CHROMIUM-TOT	57.
COD				NICKEL	< 10.
TOC		CR	< 5 ppm	ZINC	—
		Pb	12 ppm	LEAD	3500.
		Cd	< 1 ppm	CADMIUM	31.
NITRATE-N		Ag	< 5 ppm	SILVER	< 13.
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		pH (FIELD)		EP TOX	
		TEMP. (FIELD)			

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE / TIME	TO DATE / TIME
1. COLLECTED BY			DATE	TIME
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY			DATE	TIME
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 21

FIELD NO. 4-ID-7-7 LAB NO. IW-88036 DATE COMPLETED 8/31/88 B.Mat

NAME OR FIRM Glen Cove Incerator

ADDRESS OR LOCATION

POINT OF COLLECTION

REMARKS/INSTRUCTIONS

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	< 2 ~~Mg/l~~ ug/m/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	56.
COD		EP Tox Test Results		NICKEL	< 10.
TOC		Cr	< 5 ppm	ZINC	
		Pb	< 5 ppm	LEAD	800.
		Cd	< 1 ppm	CADMIUM	22.
NITRATE-N		Ag	< 5 ppm	SILVER	~ 10.
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		pH (FIELD)		EP TOX	
		TEMP. (FIELD)			

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION		
1. COLLECTED BY			DATE	TIME
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY			DATE	TIME
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

CONTINUED: INSPECTORS OBSERVATIONS OR INTERVIEWS REF (1)

LERTA MATERIALS CORP 7 JULY 88
AKA RAY SCHLEIDER CONTRACTING
OLD NORTHPORT RD RG/CC 4
KINGS PARK

DA SQUAD SEARCH WARRANT.

STAGING FOR RAID BEGAN AT 9AM AT DANIEL FLYNN MEMORIAL PARK OLD COMMACK RD, KINGS PARK AND INCLUDED PD UNITS FROM RACKETS, HP, ES, AND DA SQUAD (ND) AS WELL AS SCDHS AND LAB PERSONNEL. ENTRY TO THE SCHLEIDER STONE, GRAVEL, SAND PROCESSING COMPOUND COMMENCED ≈ 10AM. FOLLOWING SURVEY OF THE COMPOUND HLTH DEPT VAN, LAB VAN AND ES VEHICLES WERE SITUATED IN VICINITY OF WHAT APPEARED TO BE A BLACK COLORED PILE OF ASH (≈ 20FT Ø X 20FT HIGH) LOCATED TOWARDS SOUTH (REAR) SIDE OF COMPOUND. ADDITIONAL SURVEY OF AREA WAS PERFORMED AT THIS TIME AND SUBSEQUENT CONFERENCE c̄ DA SQUAD, SAFETY OFFICER, HEALTH DEPT AND LAB PERSONNEL TO DETERMINE SAMPLING POINTS, SOP, AND DECONTAMINATION LOCATION. BECAUSE OF THE POSSIBILITY OF HIGH LEVEL TOXICITY OF ASH TO BE SAMPLED (IE - POSSIBLE PRESENCE OF DIOXINS) DECISION WAS MADE TO HAVE SAMPLING TEAM ENTER AND OBTAIN SAMPLES IN LEVEL "A" PROTECTIVE SUITS (FULLY ENCAPSULED SUITS c̄ SCBA) AND THAT ES WOULD BE BACK-UP IN LEVEL "A" APPARATUS AS WELL. WEATHER CONDITIONS - SUNNY, HOT (90s), c̄ SCATTERED CLOUDS, AND SLIGHT, VARIABLE BREEZES. EZADCPE DOROSKI AND I AGREED TO PERFORM AS THE SAMPLING TEAM. ASSISTED BY HEALTH DEPT (EPC DIV.) PERSONNEL, LEVEL "A" SUITS, PECTOR INTER COM, AND SCBA WERE DONNED AND ENTRY FOR SAMPLING COMMENCED ≈ 11AM. T. DOROSKI AND I PROCEEDED TO S-SIDE BASE OF ASH PILE AND I BEGAN COLLECTING SAMPLES INTO CONTAINERS AND UTILIZING CLEANED SPOONS PROVIDED BY BR

CONTINUED: INSPECTORS OBSERVATIONS OR INTERVIEWS

REF (1)

CERTA MATERIALS CORP 7 JULY 88
KA RAY SCHLEIDER CONTRACTING
[illegible]

DA SQUAD SEARCH WARRANT

LAB PERSONNEL ON SITE. MATERIAL BEING SAMPLED WAS BLACK COLORED, "WET OR DAMP" LOOKING SOMEWHAT FIBROUS AND/OR CLUMPING SOLID. RESIDUE IN PILE INCLUDED PIECES OF GLASS, HARD PLASTIC LOOKING CHUNKS, WIRE, AND CLOTH-LIKE SHEETING UP TO A FEW INCHES IN LENGTH OR DIAMETER AND SOME SMALL ROCKS OR STONE. I OBTAINED SAMPLES AS FOLLOWS: ICR 7-7, FOR DIOXIN, EP TOX, METALS. AS I WAS COLLECTING THESE SAMPLES I EXPERIENCED INTERMITTENT LOSSES OF AIR, THEREFORE, WHEN THE METALS BOTTLE WAS ~~(HALF)~~ HALF FULL OF SAMPLE MATERIAL I, DOROSKI AND I WITHDREW FROM THE SITE c̄ THE SAMPLE BOTTLES. AT THAT TIME, I DOFFED MY ~~(PROTECTED)~~ PROTECTIVE CLOTHING ASSISTED BY ES BACK-UP. I, DOROSKI RETURNED TO THE SITE c̄ ES BACK-UP TO COMPLETE THE SAMPLING AT THIS POINT UNDER MY OBSERVATION FROM APPROXIMATELY 30 YDS. UPON COLLECTION COMPLETION, THESE FIRST SAMPLES WERE TRANSFERED DIRECTLY TO LAB PERSONNEL WHO THEN PROVIDED I, DOROSKI WITH ADDITIONAL SAMPLE CONTAINERS AND SPOONS. ACCOMPANIED BY A MEMBER OF ES IN LEVEL "A" EQUIPT I, DOROSKI PROCEEDED TO OBTAIN SAMPLES FROM A COMPOSITE MIXED PILE NEAR S-E CORNER OF COMPOUND AND FROM THE TOP (FRESHLY DUMPED) OF THE ASH PILE. THEY THEN PROCEEDED THROUGH DECON AND DIRECTLY TRANSFERED SAMPLES TO LAB PERSONNEL. MY LEVEL "A" SUIT, WHICH WAS LEFT AT FIRST SAMPLE POINT WAS DOUBLE BAGGED AND TRANSPORTED TO DECON FOR WASH DOWN.

DURING THE TIME THAT SAMPLES WERE BEING BY

CONTINUED: INSPECTORS OBSERVATIONS OR INTERVIEWS

REF (1)

LERTA MINERALS CORP
T/A RAY SCHNEIDER CONTRACTING

7 JULY 88
P 3 OF 4

DA SQUAD SEARCH WARRANT

OBTAINED AN INDUSTRIAL INSPECTION OF THE FACILITY WAS PERFORMED BY D. CORBIE AND E. VAN BLOOD. FOLLOWING COMPLETION OF SAMPLING, EQUIPT WAS PACKED AND STOWED, LAB PAPER WORK COMPLETED, AND VEHICLES WERE SECURED. THE FACILITY WAS EXITED AND UNITS OF THE DA SQUAD, HLTH DEPT (EEPC DIV), AND LAB PROCEEDED TO PARK & RIDE LOT AT THE CORNER OF LIE EXIT #52 FOR RENDEVOUS AND SUBSEQUENT TRAVEL TO CITY OF GLEN COVE INCINERATOR MORRIS AVE, GLEN COVE. UPON ARRIVAL AT THE INCINERATOR COMPOUND, DA SQUAD AND RACKETS PERSONNEL CONFERED c̄ INCINERATOR PERSONNEL AND HLTH DEPT AND LAB VANS WERE POSITIONED IN VICINITY OF ASH STOCK PILES. POINTS OF SAMPLING AND DECON AREA ~~WAS~~ WERE ESTABLISHED. I. DOROSKI AND MYSELF AGAIN AGREED TO FUNCTION AS SAMPLING TEAM, WITH I. DOROSKI SAMPLING, MYSELF ASSISTING, AND P.O. J. FLYNN BACKUP. THE THREE OF US DONNED LEVEL "A" PROTECTIVE SUITS c̄ SCBA AND PELTOR INTERCOMS AND PROCEEDED TO THE ASH STOCK PILES c̄ SAMPLING CONTAINERS AND SPOONS PROVIDED BY LAB PERSONNEL IN THE SAME MANNER AS AT THE LERTA FACILITY. SAMPLES WERE COLLECTED BY I. DOROSKI FROM THE SOUTH AND EAST BASE OF THE ASH PILES. SOUTH PILE APPEARED BLACK IN COLOR WHILE EAST PILE APPEARED DRY AND GREY. UPON COMPLETION OF SAMPLING, WE ~~EXI~~ EXITED THE AREA, TRANSFERED THE SAMPLES TO LAB PERSONNEL AND PROCEEDED TO DECON WHICH WAS MANNED BY F. RANDALL, B. R.

CONTINUED: INSPECTORS OBSERVATIONS OR INTERVIEWS

REF (1)

CERTA MATERIALS CORP — 7 JULY 88

AKA RAY SCHLEIDER CONTRACTING — 3 4 of 4

DA SQUAD SEARCH WARRANT

AND D. DEBRIS UTILIZING LEVEL "B" PROTECTIVE EQUIPT. FOLLOWING DECON, EQUIPT WAS DOFFED AND PACKED. VANS WERE PACKED AND EQUIPT STOWED. AB PAPERWORK COMPLETED. UNITS DEPARTED THE SCENE AND THE OPERATION CONCLUDED AT 6^30 P.

[signature]

REF (2)

September 11, 1980

Mr. Roy Schleider
Old Northport Road
Kings Park, New York 11754

Dear Mr. Schleider:

I inspected your landfill facility on August 9, 1980 and found that some waste of an industrial nature had been disposed on this site.

I would like your cooperation in not disturbing or covering this material until an analysis can be performed.

I would also like to remind you that you do not have a landfilling permit and, therefore, should not accept debris generated in any operation other then your own.

Thank you for your attention to this matter.

Very truly yours,

Steven J. Kramer
Air Pollution/Solid Waste Control

SJK:mew

9/21/84

(269-9249)

(10-83-0668)

From Schleider File in Regulatory Affairs

Schleider has received a Mining Permit (# 102837). This application is for a 5 acre C&D permit.

Mining Application was 10-83-0668.
Permit was 102837
Had $10,000 bond posted.

8/83 - letter from Dalli -

It doesn't look like Schleider has ever had a C&D permit.

Ret

(5)

COUNTY OF SUFFOLK

Ref (6)

DEPARTMENT OF HEALTH SERVICES

65 Jetson Lane
Hauppauge, NY 11787

RECEIVED

ENVIRONMENTAL QUALITY
REGION 1

February 14, 1979

Anthony J. Forte, Esq., Town Attorney
Smithtown Town Hall
99 West Main Street
Smithtown, NY 11787

Dear Mr. Forte:

In our conversation of February 13th, we discussed complaints received by both our offices concerning what was termed an illegal landfill in the Smithtown area.

I had previously investigated the site in question and found that various types of debris were being disposed of at a site north of the LILCO right of way, between Town Line and Old Northport Roads. I contacted the owner of the property who indicated that he was not aware of the necessity of a permit to bury demolition debris and would refrain from doing so until he had a permit in hand. I sent Mr. Schleider a permit application which he completed and returned to me. (a copy is enclosed).

The disposing of garbage or refuse by burying would constitute a violation of Part 360 which could entail a fine not exceeding $10,000 for each day of violation. I am sure no reasonable person would want to chance such fines. I have no reason to expect that the individual holding the demolition debris disposal permit will not operate in accordance with regulations.

If you have any further questions or receive complaints concerning illegal solid waste activities, please contact me for assistance. This office is agent for the New York State Department of Environmental Conservation to enforce both air pollution and solid waste regulations with the County of Suffolk.

Very truly yours,

James C. Maloney

James C. Maloney, P. E., Chief
Air Pollution/Solid Waste Pollution Control

JCM:ft
Enc.

CC: Morris Bruckman, P. E., NYS ENCON ← This copy for
Raymond Schleider

KEF (7)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPLICATION FOR USE OF A CONSTRUCTION AND DEMOLITION DEBRIS DISPOSAL SITE

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

FOR STATE USE ONLY	
PROJECT NO. S-2-80-17	DATE RECEIVED 2/28/79
DEPARTMENT ACTION ☐ Approved ☐ Disapproved	DATE

1. OWNER'S NAME RAYMOND SCHLEIDER	2. ADDRESS (Street, City, State, Zip Code) OLD NORTHPORT ROAD, KINGS PARK, N.Y.	3. Telephone No. 269-4249
4. OPERATOR'S NAME RAYMOND SCHLEIDER	5. ADDRESS (Street, City, State, Zip Code) OLD NORTHPORT ROAD, KINGS PARK, N. Y.	6. Telephone No. 269-4249
7. ON-SITE SUPERVISOR RAYMOND SCHLEIDER	8. ADDRESS (Street, City, State, Zip Code) OLD NORTHPORT ROAD, KINGS PARK, N. Y.	9. Telephone No. 269-4249

10. PROJECT/FACILITY NAME
LERTA MATERIALS, CORP.

11. PROJECT STATUS ☐ Public ☒ Private ☐ Proposed ☐ Existing	12. COUNTY IN WHICH FACILITY IS LOCATED SUFFOLK	13. ENVIRONMENTAL CONSERVATION REGION 10 ??
14. OPERATING HOURS/DAY 8 - 4:30 5 days per week	15. ESTIMATED SITE LIFE 1 Year - Feb. 1980 Months	16. ESTIMATED DAILY VOLUME 20,000 yds Cubic Yards

17. DESCRIBE SPECIFIC LOCATION OF SITE

OLD NORTHPORT ROAD
WEST OF SUNKEN MEADOW STATE PARKWAY
AND NORTH OF THE LILCO RIGHT OF WAY.

18. LIST EACH WASTE COMPONENT TO BE DISPOSED

CONCRETE
STUMPS
ASPHALT

19. BRIEFLY DESCRIBE PROPOSED COMPACTION, COVER, SEEDING AND FINAL CLOSURE OF SITE

20. CERTIFICATION:
I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

2-5-79
Date

Raymond Schleider PRESIDENT
Signature and Title

47-19-6 (6/77)
Formerly SW-24

REGIONAL OFFICE COPY

New York State Department of Environmental Conservation
BLDG.#40, SUNY
STONY BROOK, NEW YORK 11794
(516) 751-7900

Robert F. Flacke
Commissioner

REF (8)

May 1, 1979

Ms. P. Derita
10 Caramel Court
Commack, New York 11725

Dear Ms. Derita:

I am writing you this letter to acquaint you with the design and operation of the Smithtown double lined landfill.

A permit to construct was issued to the Town in June '78 after a public informational hearing and design review by this Department. As such the landfill has met stringent requirements, and to the best of my knowledge is the only double lined municipal landfill in the country. The short cell life and small cell size, coupled with a detection system for upper liner failure (if any) protects the groundwater from contamination. Baled waste severly minimizes seagull attraction. Final elevation is below street grade and cannot be remotely compared with the Huntington landfill. Any methane gas generated by the balefill will be harmlessly vented to the atmosphere. I trust this addresses your concerns. If you have any questions, please do not hesitate to contact me.

With regard to Mr. Schlieder's alleged burial of drums, please send me any pictures or other evidence you have.

Sincerely yours,

Paul Lappano

Paul Lappano
Asst. Sanitary Engr.

PL/ef

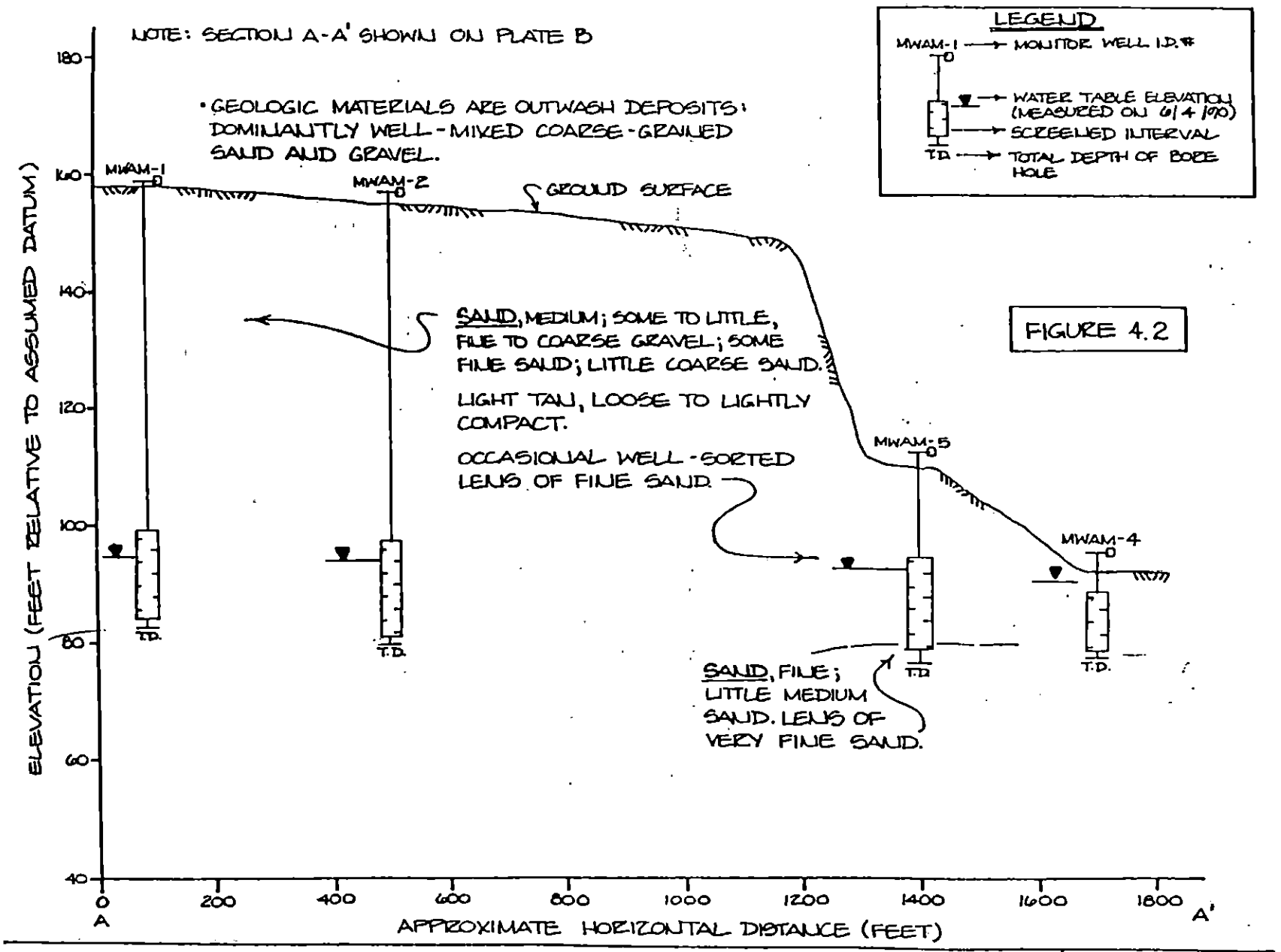

FIGURE 4.2

GEOLOGIC CROSS SECTION AT AMFAR ASPHALT CORPORATION | YEC, INC.

Rec (14)

ork State Department of Environmental Conservation
Building 40
SUNY
Stony Brook, NY 11794

516-751-7900

Henry G. Williams
Commissioner

REF (24)

May 13, 1986

Mr. Ray Schleider
Schleider Contracting Corporation
Old Northport Road
Kings Park, NY 11754

Dear Mr. Schleider:

The incinerator ash that you store at your site for recycling needs to be on an impervious pad (asphalt) and it needs to be covered with a tarp or a clay layer.

Please call Mr. John Conver at 751-2617 as to when you estimate that this work can be completed.

Thank you.

Sincerely,

Paul Roth
Regional Solid Waste Engineer

PR:ll

cc: J. Conover

APPENDIX B

Site Inspection Report
USEPA Form 2070-13

Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	152089

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
R.Scleider C&D Site	Old Northport Road				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Kings Park	NY	11754	Suffolk		

09 COORDINATES LATITUDE 40° 52' 30" LONGITUDE 73° 16' 57"

10 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
2 / 12 / 91 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1970 (BEGINNING YEAR) present (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☒ F. STATE CONTRACTOR URS Consultants (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Robert Kreuzer	Geologist	URS	(716) 856-5636
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Jamie Ascher	Geologist	NYSDEC	(518) 751-4078
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	11:00AM	Sunny, 20°

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Robert Kreuzer	URS Consultants, Inc.	(716) 856-5636

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
same				4 / 15 / 91 (MONTH DAY YEAR)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	152089

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [X] A. SOLID
- [ ] B. POWDER, FINES
- [ ] C. SLUDGE
- [ ] D. OTHER (Specify)
- [ ] E. SLURRY
- [ ] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS: unknown
CUBIC YARDS:
NO. OF DRUMS:

03 WASTE CHARACTERISTICS (Check all that apply)

- [ ] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [ ] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [ ] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

unknown

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	unknown		site reportedly accepted incinerator ash and industrial waste
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC and SCDHS files

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE: NY	02 SITE NUMBER: 152089

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 70,000 — 04 NARRATIVE DESCRIPTION

All residents within a 3 mile radius of the site use groundwater for potable water.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

All surface water in the vicinity of the site infiltrates into the highly permeable sand and gravel.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None reported.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None reported

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 6,866 — 04 NARRATIVE DESCRIPTION

6,866 is the population within a one mile radius of the site. The site is not completely fenced.

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 1-2 (Acres) — 04 NARRATIVE DESCRIPTION

Areas used to dispose of C&D could impact the soil.

01 ☒ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 70,000 — 04 NARRATIVE DESCRIPTION

All residents within a 3 mile radius of the site use groundwater for potable water.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: unknown — 04 NARRATIVE DESCRIPTION

Several workers are onsite.

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 70,000 — 04 NARRATIVE DESCRIPTION

Population within a 3 mile radius of the site.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 152089

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

None reported.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Unlikely.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☒ OBSERVED (DATE: 2/12/91) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 6,866 — 04 NARRATIVE DESCRIPTION

Uncovered C&D debirs is located onsite.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Drummed wastes were allegedly accepted at the site (Ref. 8)

III. TOTAL POPULATION POTENTIALLY AFFECTED: 70,000. population within a 3 mile radius of the site.

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC and SCDHS files.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 152089

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☒ G. STATE (Specify)	102837			Sand and gravel mining permit.
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	unknown quantity of C&D waste	
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
- ☐ A. INCINERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE
_____ (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

C&D debris onsite not covered.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO
02 COMMENTS

Site is not fenced.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

NYSDEC and SCDHS files.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: NY | 02 SITE NUMBER: 152089

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☒
NON-COMMUNITY	C. ☐	D. ☒

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1 (mi)
B. 0.1 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 70,000

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.1 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
65 (ft)	north-northeast	65 (ft)	(gpd)	☒ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Unknown, no well logs or construction details were found during the file search.

10 RECHARGE AREA

☒ YES ☐ NO

COMMENTS: Due to the high permeability of the surface deposits, surface water recharges the aquifer.

11 DISCHARGE AREA

☐ YES ☒ NO

COMMENTS:

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Sunken Meadow Creek	☐	1.5 (mi)
Long Island Sound	☐	3 (mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 6,866 NO. OF PERSONS	B. 31,123 NO. OF PERSONS	C. 76,622 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

0.25 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

8,879

04 DISTANCE TO NEAREST OFF-SITE BUILDING

0.25 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The site is surrounded by a few homes and several other sand and gravel/C&D landfill operations as well as the Huntington Landfill.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 152089

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☒ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

Bedrock is located at over 1,000' below the ground surface.

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
1.000+ (ft)	unknown (ft)	4.5-5.5	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
16 (in)	3 (in)	3 %		3 %

09 FLOOD POTENTIAL

SITE IS IN not in YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. 2 (mi) OTHER: B. 1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: none reported

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 0.4 (mi)	B. 0.25 (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located in the vicinity of several other sand and gravel operations as well as the Huntington Landfill. Residential areas surround these operations.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC and SCDHS files.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	152089

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		No samples collected	
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNu (PID)	2/12/91- no readings above background
radiation meter	2/12/91- no readings above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF URS Consultants, Inc.
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS URS Consultants, Inc., 282 Delaware Ave, Buffalo

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

Site inspection 2/12/91.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	152089

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Raymond Schleider		Northport Rd.		Kings Park	NY	11754

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC files.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 152089

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Raymond Schleider	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Northport Road	

05 CITY	06 STATE	07 ZIP CODE
Kings Park	NY	11754

08 YEARS OF OPERATION	09 NAME OF OWNER
1970-present	R.Schleider

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC files, R. Schleider

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	152089

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	152089

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	152089

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC files.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	152089

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

APPENDIX C

Interview Documentation Forms

REF (3)

URS

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATI

URS CONSULTANTS, INC.
282 DELAWARE AVENUE
BUFFALO, NEW YORK 14202-1805
(716) 856-5636
FAX: (716) 856-2545

ATLANTA
BOSTON
BUFFALO
CLEVELAND
COLUMBUS
DENVER
NEW YORK
PARAMUS, NJ
NEW ORLEANS
SAN FRANCISCO
SAN MATEO
SEATTLE
VIRGINIA BEACH
WASHINGTON, D.C.

April 18, 1991

Mr. Raymond Schleider
Schleider Contracting Corporation
Old Northport Road
Kings Park, New York 11754

RE: R. SCHLEIDER C&D SITE

Dear Mr. Schleider:

As I mentioned during our telephone conversation on March 22, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of your property located off of Old Northport Road in Kings Park, New York.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 3-0309.

This is to confirm our telephone conversation wherein you provided the following information:

- You have owned the property since approximately 1970.
- You have operated a sand and gravel operation on the property for approximately 20 years. In addition to the sand and gravel operation, you have also accepted C&D debris for recycling purposes.
- The majority of the C&D material processed at your facility consists of concrete. The concrete is processed through a crusher and any metal present is separated out. The metal recovered is sold as scrap, and the crushed concrete is sold as construction material.
- You also have processed incinerator ash from the Glen Cove Mass Burn Incinerator. This ash was mixed with sand, gravel and cement to form concrete. This process was used to stabilize the ash, and was conducted under the supervision of the NYSDEC. This operation was ceased in 1988 following notification from the NYSDEC that the regulations for the processing of incinerator ash had changed.
- The storage shed located in the sand and gravel pit is used to store road salt and equipment.

REF (3)

URS

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATI

We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed return envelope.

Sincerely,

URS CONSULTANTS, INC.

Robert F. Kreuzer
Project Geologist

RFK/ys
4-18-91L.RK
35231.00 (File: 5015 - 102)

I agree with the information as it is presented.

Raymond Schleider _____ Date _____

APPENDIX D

Hazard Ranking System

FACILITY NAME: R. Schleider C & D Site

LOCATION: Old Northport Road, Kings Park, NY

EPA REGION: II

PERSON(S) IN CHARGE OF THE FACILITY: Raymond Schleider

Old Northport Road

Kings Park, New York 11754

NAME OF REVIEWER: URS Consultants, Inc. DATE: 4/15/91

GENERAL DESCRIPTION OF THE FACILTY:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action;etc.)

The site consists of a sand and gravel pit containing area previously used for the disposal of C & D debris. The site reportedly accepted waste from a mass burn incinerator as well as industrial waste. Metals were detected in two onsite wells which were installed as part of an investigation at an adjacent site.

SCORES: Sm= 42.25 (Sgw = 73.08 Ssw = 1.06 Sa = 0.00)

Sfe = 0.00

Sdc = 50.00

HRS COVER SHEET

GROUND WATER ROUTE WORK SHEET

RATING FACTOR	ASSIGNED VALUE	MULTI-PLIER	SCORE	MAX. SCORE	REF. (SECTION)
1 OBSERVED RELEASE	0 **45**	1	45	45	3.1
IF OBSERVED RELEASE IS GIVEN A SCORE OF 45, PROCEED TO LINE 4 IF OBSERVED RELEASE IS GIVEN A SCORE OF 0, PROCEED TO LINE 2					
2 ROUTE CHARACTERISTICS					3.2
DEPTH TO AQUIFER OF CONCERN	0 1 2 3	2	0	6	
NET PRECIPITATION	0 1 2 3	1		3	
PERMEABILITY OF THE UNSATURATED ZONE	0 1 2 3	1		3	
PHYSICAL STATE	0 1 2 3	1		3	
TOTAL ROUTE CHARACTERISTICS SCORE			0	15	
3 CONTAINMENT	0 1 2 3	1		3	3.3
4 WASTE CHARACTERISTICS					
TOXICITY/PERSISTANCE	0 3 6 9 **18**	1	18	18	3.4
HAZARDOUS WASTE QUANTITY	12 15 18 0 1 2 3 **1** 4 5 6 7 8	1	1	8	
TOTAL WASTE CHARACTERISTICS SCORE			19	26	
5 TARGETS					
GROUND WATER USE	0 1 2 3 **3**	3	9	9	
DISTANCE TO NEAREST WELL /POPULATION SERVED	0 4 6 8 10 12 16 **18** **40** 24 30 32 35 40	1	40	40	
TOTAL TARGETS SCORE			49	49	
6 IF LINE 1 IS 45, MULTIPLY 1 X 4 X 5			41895	57,330	
IF LINE 1 IS 0, MULTIPLY 2 X 3 X 4 X 5			0		
7 DIVIDE LINE 6 BY 57,330 AND MULTIPLY BY 100					
		Sgw =	73.08		

GROUND WATER ROUTE WORK SHEET

SURFACE WATER ROUTE WORK SHEET

RATING FACTOR	ASSIGNED VALUE	MULTI-PLIER	SCORE	MAX. SCORE	REF. (SECTION)
1 OBSERVED RELEASE	0 45 [0]	1	0	45	4.1
IF OBSERVED RELEASE IS GIVEN A SCORE OF 45, PROCEED TO LINE 4 IF OBSERVED RELEASE IS GIVEN A SCORE OF 0, PROCEED TO LINE 2					
2 ROUTE CHARACTERISTICS					4.2
FACILITIES SLOPE AND INTERVENING TERRAIN	0 1 2 3 [1]	1	1	3	
1-yr 24 HOUR RAINFALL	0 1 2 3 [2]	1	2	3	
DISTANCE TO NEAREST SURFACE WATER	0 1 2 3 [1]	2	2	6	
PHYSICAL STATE	0 1 2 3 [1]	1	1	3	
TOTAL ROUTE CHARACTERISTICS SCORE			6	15	
3 CONTAINMENT	0 1 2 3 [1]	1	1	3	4.3
4 WASTE CHARACTERISTICS					
TOXICITY/PERSISTANCE	0 3 6 9 12 15 [18]	1	18	18	4.4
HAZARDOUS WASTE QUANTITY	1 2 3 4 5 6 7 8 [1]	1	1	8	
TOTAL WASTE CHARACTERISTICS SCORE			19	26	
5 TARGETS					4.5
SURFACE WATER USE	0 1 2 3 [2]	3	6	9	
DISTANCE TO A SENSITIVE ENVIRONMENT	0 1 2 3 [0]	2	0	6	
POPULATION SERVED/DIST TO WATER INTAKE DOWNSTREAM	0 4 6 8 10 12 16 18 20 0 24 30 32 35 40 [ ]	1	0		
TOTAL TARGETS SCORE			6	55	
6 IF LINE 1 IS 45, MULTIPLY 1 X 4 X 5 IF LINE 1 IS 0, MULTIPLY 2 X 3 X 4 X 5			0 684	64,350	
7 DIVIDE LINE 6 BY 64,350 AND MULTIPLY BY 100 Ssw =			1.06		

SURFACE WATER ROUTE WORK SHEET

AIR ROUTE WORK SHEET

RATING FACTOR	ASSIGNED VALUE	MULTI-PLIER	SCORE	MAX. SCORE	REF. (SECTION)
1 OBSERVED RELEASE	0 45 [0]	1	0	45	5.1

DATE AND LOCATION: 2/12/91 – Smithtown, New York

SAMPLING PROTOCOL: HNμ (PID)

IF LINE 1 IS 0, THE Sa =0. ENTER ON LINE 5
IF LINE 1 IS 45, THEN PROCEED TO; LINE 2.

2 WASTE CHARACTERISTICS 5.2

REACTIVITY AND INCOMPATIBILITY	0 1 2 3 [ ]	1		3	
TOXICITY	0 1 2 3 [ ]	3	0	9	
HAZARDOUS WASTE QUANTITY	3 4 5 6 7 8 [ ]	1	0	8	
TOTAL WASTE CHARACTERISTICS SCORE			0	20	

3 TARGETS 5.3

POPULATION WITHIN 4 MILE RADIUS	O 9 12 21 24 27 [ ]	1	0	30	
DISTANCE TO SENSITIVE ENVIRONMENT	0 1 2 3 [ ]	2	0	6	
LAND USE	0 1 2 3 [ ]	1		3	
TOTAL TARGETS SCORE			0	39	
4 MULTIPLY 1 X 2 X 3			0	35,100	

5 DIVIDE LINE 4 BY 35,100 AND MULTIPLY BY 100

Sa= 0.00

	S	S^2
GROUNDWATER ROUTE SCORE (Sgw)	73.08	5340.24
SURFACE WATER ROUTE SCORE (Ssw)	1.06	1.13
AIR ROUTE SCORE (Sa)	0.00	0.00
$S^2gw + S^2sw + S^2a$		5341.37
square root of($S^2gw + S^2sw + S^2a$)		73.08
square root of ($S^2gw + S^2sw + S^2a$)/1.73 = Sm		42.25

WORKSHEET FOR COMPUTING Sm

FIRE AND EXPLOSION WORK SHEET

	RATING FACTOR	ASSIGNED VALUE	MULTI-PLIER	SCORE	MAX. SCORE	REF. (SECTION)
0.00	1 CONTAINMENT	1 3 [0]	1	0	3	7.1
	2 WASTE CHARACTERISTICS					
	DIRECT EVIDENCE	0 3 [ ]	1		3	7.2
	IGNITABILITY	0 1 2 3 [ ]	1		3	
	REACTIVITY	0 1 2 3 [ ]	1		3	
	INCOMPATIBILITY	0 1 2 3 [ ]	1		3	
	HAZARDOUS WASTE				3	
	QUANTITY	1 2 3 4 5 6 7 8 [ ]	1		8	
	TOTAL WASTE CHARACTERISTICS SCORE			0	20	
	3 TARGETS					7.3
	DISTANCE TO NEAREST POPULATION	0 1 2 3 4 5 [ ]	1			
	DISTANCE TO NEAREST BUILDING	0 1 2 3 [ ]	1			
	DISTANCE TO A SENSITIVE ENVIRONMENT	0 1 2 3 [ ]	1		6	
	LAND USE	0 1 2 3 [ ]	1			
	POPULATION WITHIN 2 MILE RADIUS	0 1 2 3 4 5 [ ]	1			
	BUILDINGS WITHIN 2 MILE RADIUS	0 1 2 3 4 5 [ ]	1			
	TOTAL TARGETS SCORE			0	24	
	4 MULTIPLY 1 X 2 3			0	1,440	
	5 DIVIDE LINE 4 BY 1,440 AND MULTIPLY BY 100					
	Sfe =			0.00		

FIRE AND EXPLOSION WORK SHEET

DIRECT CONTACT WORK SHEET					
RATING FACTOR	ASSIGNED VALUE	MULTI-PLIER	SCORE	MAX. SCORE	REF. (SECTION)
1 OBSERVED RELEASE	0 45 [0]	1	0	45	8.1
IF LINE 1 IS 45, PROCEED TO LINE 4 IF LINE 1 IS 0, PROCEED TO LINE 2					
2 ACCESSIBILITY	0 1 2 3 [3]	1	3	3	8.2
3 CONTAINMENT	0 15 [15]	1	15	15	8.3
4 WASTE CHARACTERISTICS TOXICITY	0 1 2 3 [3]	5	15	15	8.4
5 TARGETS					8.5
POPULATION WITHIN 1 MILE RADIUS	0 1 2 3 4 5 [4]	4	16	20	
DISTANCE TO A CRITICAL HABITAT	0 1 2 3 [0]	4	0	12	
TOTAL TARGETS SCORE			16	32	
6 IF LINE 1 IS 45, MULTIPLY 1 X 4 X 5 IF LINE 1 IS 0, MULTIPLY 2 X 3 X 4 X 5			0 10800	21,600	
7 DIVIDE LINE 6 BY 21,600 AND MULTIPLY BY 100			Sdc =	50.00	

DIRECT CONTACT WORK SHEET

GROUNDWATER ROUTE

1 OBSERVED RELEASE

o CONTAMINANTS DETECTED (5 MAXIMUM):

Be, Cd, Cr, Fe, Na, Pb

o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE FACILITY:

The metals were detected in onsite wells. The concentrations appear elevated in comparison to upgradient wells.

SCORE = 45

***

2. ROUTE CHARACTERISTICS

DEPTH TO AQUIFER OF CONCERN

o NAME/DESCRIPTION OF AQUIFER(S) OF CONCERN:

NA

o DEPTH(S) FROM THE GROUND SURFACE TO THE HIGHEST SEASONAL LEVEL OF THE SATURATED ZONE [WATER TABLE(S)] OF THE AQUIFER OF CONCERN:

NA

o DEPTH FROM THE GROUND SURFACE TO THE LOWEST POINT OF WASTE DISPOSAL/STORAGE:

NA

SCORE = 0

***

NET PRECIPITATION

- MEAN ANNUAL OR SEASONAL PRECIPITATION(LIST MONTHS FOR SEASONAL):

  NA

- MEAN ANNUAL OR SEASONAL EVAPORATION (LIST MONTHS FOR SEASONAL):

  NA

- NET PRECIPITATION (SUBTRACT THE ABOVE FIGURES):

  NA

SCORE = 0

PERMEABILITY OF UNSATURATED ZONE

- SOIL TYPE IN UNSATURATED ZONE:

  NA

- PERMEABILITY ASSOCIATED WITH SOIL TYPE:

  NA

SCORE = 0

PHYSICAL STATE

- PHYSICAL STATE OF SUBSTANCES AT TIME OF DISPOSAL (OR AT PRESENT TIME FOR GENERATED GASES):

  NA

SCORE = 0

***

3. CONTAINMENT

CONTAINMENT

o METHOD(S) OF WASTE OF LEACHATE CONTAINMENT EVALUATED:

NA

o METHOD WITH THE HIGHEST SCORE:

NA

SCORE = 0

***

4. WASTE CHARACTERISTICS

TOXICITY AND PERSISTENCE

o COMPOUND(S) EVALUATED:

Compound	Toxicity	Persistance	Score
Cd	3	3	18
Cr	3	3	18
Pb	3	3	18

o COMPOUND WITH THE HIGHEST SCORE:

Cd, Cr, Pb

SCORE = 18

HAZARDOUS WASTE QUANTITY

o TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY, EXCLUDING THOSE WITH A CONTAINMENT SCORE OF 0(GIVE A REASONABLE ESTIMATE EVEN IF QUANTITY IS ABOVE MAXIMUM):

Unknown

SCORE = 1

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

A minimum quantity of waste is scored a 1

***

5. TARGETS

GROUNDWATER USE

o USE(S) OF AQUIFER(S) OF CONCERN WITHIN A 3-MILE RADIUS OF THE FACILITY:

Drinking water (Ref. 9)

SCORE = 3

DISTANCE OF NEAREST WELL

o LOCATION OF NEAREST WELL DRAWING FROM AQUIFER OF CONCERN OR OCCUPIED BUILDING NOT SERVED BY A PUBLIC WATER SUPPLY:

Domestic well approximately 500 feet north-northeast of the site (Ref. 9)

o DISTANCE TO ABOVE WELL OR BUILDING:

500 feet

POPULATION SERVED BY GROUNDWATER WELL WITHIN A 3-MILE RADIUS

o IDENTIFIED WATER-SUPPLY WELL(S) DRAWING FROM AQUIFER(S) OF CONCERN WITHIN A 3-MILE RADIUS AND POPULATIONS SERVED BY EACH:

Suffolk County Water Authority has 12 wells within 3 miles of the site; Kings Park Psychiatric Center - 2 wells; Greenlawn Water District 1 well within 3 miles; Northport VA Hospital 1 well (Ref. 15)

o COMPUTATION OF LAND AREA IRRIGATED BY SUPPLY WELL(S) DRAWING FROM AQUIFER(S) OF CONCERN WITHIN A 3-MILE RADIUS, AND CONVERSION TO POPULATION(1.5 PEOPLE PER ACRE):

The SCS did not identify any areas within 3 miles of the site using groundwater for irrigation

o TOTAL POPULATION SERVED BY GROUNDWATER WITHIN A 3-MILE RADIUS:

77,000 people

SCORE = 40

SURFACE WATER ROUTE

1. OBSERVED RELEASE

o CONTAMINANTS DETECTED IN SURFACE WATER AT THE FACILITY OR DOWNHILL FROM IT (5 MAXIMUM):

NA

o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE FACILITY:

No surface water testing conducted

SCORE = 0

***

2. ROUTE CHARACTERISTICS

FACILITY SLOPE AND INTERVENING TERRAIN

o AVERAGE SLOPE OF THE FACILITY IN PERCENT:

3 - 5%

o NAME/DESCRIPTION OF THE NEAREST DOWNSLOPE SURFACE WATER:

Sunken Meadow Creek

o AVERAGE SLOPE OF TERRAIN BETWEEN FACILITY AND ABOVE-CITED SURFACE WATER IN PERCENT:

4%

o IS THE FACILITY LOCATED EITHER TOTALLY OR PARTIALLY IN SURFACE WATER?:

No

SCORE = 1

o IS THE FACILITY COMPLETELY SURROUNDED BY AREAS OF HIGHER ELEVATION?

No

1-YEAR 24 HOUR RAINFALL IN INCHES

2.5 inches (Ref. USEPA 1984)

SCORE = 2

DISTANCE TO NEAREST DOWNSLOPE SURFACE WATER

1.5 miles

SCORE = 1

PHYSICAL STATE OF WASTE

solid

SCORE = 1

***

3. CONTAINMENT

CONTAINMENT

o METHOD(S) OF WASTE OR LEACHATE CONTAINMENT EVALUATED:

None

o METHOD WITH THE HIGHEST SCORE:

None

SCORE = 1

***

4. WASTE CHARACTERISTICS

TOXICITY AND PERSISTENCE

o COMPOUND(S) EVALUATED

Compound	Toxicity	Persistance	Score
Cd	3	3	18
Cr	3	3	18
Pb	3	3	18

o COMPOUND WITH THE HIGHEST SCORE:

Cd, Cr, Pb

SCORE = 18

HAZARDOUS WASTE QUANTITY

o TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY EXCLUDING THOSE WITH A CONTAINMENT SCORE OF 0 (GIVE A REASONABLE ESTIMATE EVEN IF QUANTITY IS ABOVE MAXIMUM):

Unknown

SCORE = 1

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

A minimum of quantity waste is scored 1

***

5. TARGETS

SURFACE WATER USE

o USE(S) OF SURFACE WATER WITHIN 3 MILES DOWNSTREAM OF THE HAZARDOUS SUBSTANCE:

Recreation

Score = 2

- IS THERE TIDAL INFLUENCE?

  No

DISTANCE TO A SENSITIVE ENVIRONMENT

- DISTANCE TO A 5-ACRE(MINIMUM) COASTAL WETLAND, IF 2 MILES OR LESS:

  None reported

- DISTANCE TO A 5 ACRE (MINIMUM) FRESH-WATER WETLAND, IF 1 MILE OR LESS:

  None reported

- DISTANCE TO CRITICAL HABITAT OF AN ENDANGERED SPECIES OR NATIONAL WILDLIFE REFUGE, IF 1 MILE OR LESS:

  None reported

SCORE = 0

POPULATION SERVED BY SURFACE WATER

- LOCATION(S) OF WATER-SUPPLY INTAKE(S) WITHIN 3 MILES(FREE-FLOWING BODIES) OR 1 MILE (STATIC WATER BODIES) DOWNSTREAM OF THE HAZARDOUS SUBSTANCE AND POPULATION SERVED BY EACH INTAKE:

  None

- COMPUTATION OF LAND AREA IRRIGATED BY ABOVE-CITED INTAKE(S) AND CONVERSION TO POPULATION (1.5 PEOPLE PER ACRE):

  None reported

- TOTAL POPULATION SERVED

  0 .

- NAME/DESCRIPTION OF NEAREST ABOVE-CITED WATER BODIES:

  Sunken Meadow Creek

- DISTANCE TO ABOVE-CITED INTAKES, MEASURED IN STREAM MILES:

SCORE = 0

***

AIR ROUTE

1. OBSERVED RELEASE

o CONTAMINANTS DETECTED:

No air release

o DATE AND LOCATION OF DETECTION OF CONTAMINANTS:

2/12/91 - Smithtown, N.Y.

o METHODS USED TO DETECT THE CONTAMINANTS:

HNu (PID)

o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE SITE:

None

SCORE = 0

***

2. WASTE CHARACTERISTICS

REACTIVITY AND INCOMPATIBILITY

o MOST REACTIVE COMPOUND

No air release

o MOST INCOMPATIBLE PAIR OF COMPOUNDS

No air release

SCORE = 0

TOXICITY

o MOST TOXIC COMPOUND

No air release

SCORE = 0

HAZARDOUS WASTE QUANTITY

o TOTAL QUANTITY OF HAZARDOUS WASTE:

No air release

SCORE = 0

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

NA

***

3 TARGETS

POPULATION WITHIN 4-MILE RADIUS

o UNDERLINE RADIUS USED, GIVE POPULATION AND INDICATE HOW DETERMINED:

0 TO 4 MI 0 TO 1 MI 0 TO 0.5 MI 0 TO 0.25 MI

No air release

SCORE = 0

DISTANCE TO A SENSITIVE ENVIRONMENT

o DISTANCE TO 5 ACRE (MINIMUM) COASTAL WETLAND, IF 2 MILES OR LESS:

No air release

- DISTANCE TO 5 ACRE (MINIMUM) FRESH WATER WETLAND, IF 1 MILE OR LESS:

  No air release

- DISTANCE TO CRITICAL HABITAT OF AN ENDANGERED SPECIES, IF 1 MILE OR LESS:

  No air release

SCORE = 0

LAND USE

- DISTANCE TO COMMERCIAL/INDUSTRIAL AREA , IF 1 MILE OR LESS:

  No air release

- DISTANCE TO NATIONAL OR STATE PARK, FOREST, OR WILDLIFE RESERVE, IF 2 MILES OR LESS:

  No air release

- DISTANCE TO RESIDENTIAL AREA, IF 2 MILES OR LESS:

  No air release

- DISTANCE TO AGRICULTURAL LAND IN PRODUCTION WITHIN THE LAST 5 YEARS, IF 1 MILE OR LESS:

  No air release

- DISTANCE TO PRIME AGRICULTURAL LAND IN PRODUCTION WITHIN PAST YEARS, IF 2 MILES OR LESS:

  No air release

- IS A HISTORICAL OR LANDMARK SITE(NATIONAL REGISTER OR HISTORIC PLACES AND NATIONAL NATURAL LANDMARKS) WITHIN VIEW OF THE SITE?

  No air release

SCORE = 0

***

FIRE AND EXPLOSION

1. CONTAINMENT

o HAZARDOUS SUBSTANCES PRESENT:

No threat of fire or explosion (Ref. 4)

o TYPE OF CONTAINMENT, IF APPLICABLE:

NA

SCORE = 0

***

2. WASTE CHARACTERISTICS

DIRECT EVIDENCE

o TYPE OF INSTRUMENT AND MEASUREMENTS:

No threat of fire or explosion

SCORE = 0

IGNITABILITY

o COMPOUND USED

No threat of fire or explosion

SCORE = 0

REACTIVITY

o MOST REACTIVE COMPOUND:

No threat of fire or explosion

SCORE = 0

INCOMPATIBILITY

o MOST INCOMPATIBLE PAIR OF COMPOUNDS:

No threat of fire or explosion

SCORE = 0

HAZARDOUS WASTE QUANTITY

o TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY:

No threat of fire or explosion

SCORE = 0

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

NA

3 TARGETS

DISTANCE TO NEAREST POPULATION

No threat of fire or explosion

SCORE = 0

DISTANCE TO NEAREST BUILDING

No threat of fire or explosion

SCORE = 0

DISTANCE TO SENSITIVE ENVIRONMENT

o DISTANCE TO WETLANDS

No threat of fire or explosion

o DISTANCE TO CRITICAL HABITAT:

No threat of fire or explosion

SCORE = 0

LAND USE

- DISTANCE TO COMMERCIAL/INDUSTRIAL AREA

  No threat of fire or explosion

- DISTANCE TO NATIONAL OR STATE PARK, FOREST OF WILDLIFE RESERVE, IF 2 MILES OR LESS:

  No threat of fire or explosion

- DISTANCE TO RESIDENTIAL AREA, IF 2 MILES OR LESS:

  No threat of fire or explosion

- DISTANCE TO AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 1 MILE OR LESS:

  No threat of fire or explosion

- DISTANCE TO PRIME AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 2 MILES OR LESS:

  No threat of fire or explosion

- IF A HISTORIC OR LANDMARK SITE (NATIONAL REGISTER OF HISTORIC PLACES AND NATIONAL NATURAL LANDMARKS) WITHIN VIEW OF THE SITE?

  No threat of fire or explosion

SCORE = 0

POPULATION WITHIN 2 MILE RADIUS

No threat of fire or explosion

SCORE = 0

BUILDINGS WITHIN A 2 MILE RADIUS

No threat of fire or explosion

SCORE = 0

***

DIRECT CONTACT

1. OBSERVED INCIDENT

o DATE, LOCATION AND PERTINENT DETAILS OF INCIDENT:

None reported

SCORE = 0

***

2. ACCESSIBILITY

o DESCRIBE TYPE OF BARRIER(S):

Site is not completely fenced

SCORE = 3

***

3. CONTAINMENT

o TYPE OF CONTAINMENT, IF APPLICABLE:

None

SCORE = 15

***

4. WASTE CHARACTERISTICS

TOXICITY

o COMPOUNDS EVALUATED

None

o COMPOUND WITH HIGHEST SCORE:

NA

SCORE = 1

***

5 TARGETS

POPULATION WITHIN 1 MILE RADIUS

6,866 (Ref. 9)

SCORE = 4

DISTANCE TO CRITICAL HABITAT (OF ENDANGERED SPECIES)

None reported

SCORE = 0

***